

19990729.ba v02\_n621.bam.990729

>From ???@??? Fri Jul 30 05:31:12 1999  
Message-Id: <199907300224.d6U20d004188@sco.theporch.com>  
Date: Thu, 29 Jul 1999 21:24:00 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 2621

BOATANCHORS Digest 2621

Topics covered in this issue include:

- 1) Re: Eldico (REliant) S-118 Comm. System  
by Tom Smith <tsmith@hal-pc.org>
- 2) RME vhf converter model VHF-152 FS  
by zeitler@ibm.net
- 3) Re: 2620 Linear-stroke engine  
by Jderm740@aol.com
- 4) For Sale: GRC-109  
by "WF2U" <mbendror@villagenet.com>
- 5) End of CW for Canadian Coast Guard  
by Deane D McIntyre <dmcintyr@ucalgary.ca>
- 6) Re: End of CW for Canadian Coast Guard  
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 7) RACAL 117 Info sought.  
by dma@islandnet.com
- 8) AR88LF-The ultimate boatanchor  
by Dave Medley <davemed@earthlink.net>
- 9) FS: TA-1/PT Field Phones  
by Ray Vasek <w2ec@ibm.net>
- 10) Batteries  
by "Lloyd A. Scott, Jr." <wpul1130@concentric.net>
- 11) Re: AR88LF-The ultimate boatanchor  
by Al Klase <skywaves@bw.webex.net>
- 12) Military Batteries  
by David Stinson <arc5@ix.netcom.com>
- 13) Re: AR88LF-The ultimate boatanchor  
by Andre Guibert <aguibert@sympatico.ca>
- 14) Re: Batteries  
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 15) Re: AR88LF-The ultimate boatanchor  
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 16) paralleling several dc supplies to increase I capability  
by zeitler@ibm.net
- 17) FS: Navy MAR AC Power Supply  
by Al Klase <skywaves@bw.webex.net>
- 18) Re: paralleling several dc supplies to increase I capability

- by John Shriver <jas@shiva.com>
- 19) Help ID RCVR  
by "Richard W. Solomon" <w1kszt@tiac.net>
  - 20) Re: paralleling several dc supplies to increase I capability  
by dma@islandnet.com
  - 21) Re: AR88LF-The ultimate boatanchor  
by luc dugas <collins2@globetrotter.net>
  - 22) re: AR-88: the ultimate boatanchor  
by "Mike O'Brien" <mobrien@lib.drury.edu>
  - 23) RE: AR-88: the ultimate boatanchor  
by "WF2U" <mbendror@villagenet.com>

-----  
Message-ID: <379F4F8C.17433B92@hal-pc.org>  
Date: Wed, 28 Jul 1999 18:44:28 +0000  
From: Tom Smith <tsmith@hal-pc.org>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Eldico (RELIant) S-118 Comm. System  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> I have a complete original manual set, if someone would like to copy for their  
> gear.

Tom N5AMA

-----  
From: zeitler@ibm.net  
Message-ID: <00c801bed953\$29c5e2a0\$78dd6520@km3g>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RME vhf converter model VHF-152 FS  
Date: Wed, 28 Jul 1999 16:44:39 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Untested. No book. Looks really nice. I was going to keep the cabinet for a  
HV PS but need the cash to help with tuition.

\$40 plus actual UPS charges from San Diego 92139. Pls include ur zip when  
replying.

Lane  
Ku7i

-----

From: Jderm740@aol.com  
Message-ID: <dfae5662.24d0feea@aol.com>  
Date: Wed, 28 Jul 1999 20:48:42 EDT  
Subject: Re: 2620 Linear-stroke engine  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: herbrose@lobo.net  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Herb

The only engine that I can think of might be a Cross-head engine. These are usually only in large engines but it might work as a way to high rev a small engine with less chance of failure.

In Cross-Head engines the Con Rod doesn't connect to the crankshaft directly. The con rod is supported on rail like tracks and moves in and out with the piston without having to spin around with the crank. The end of the Cross-Head (con rod) has a pivot that drives the crank. The easiest example to see is a steam RR engine. If you can follow all the monkey-motion going on you'll see that the rod connected to the pistons only slides back and forth. Never connecting directly to the drivers.

If anybody has another version, I'm open to adding a little more stuff to an overworked brain.

Jack

-----  
From: "WF2U" <mbendror@villagenet.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: For Sale: GRC-109  
Date: Wed, 28 Jul 1999 23:05:55 -0400  
Message-ID: <002801bed96f\$45ff9e90\$0291c0c0@meir-s\_nt4.villagenet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

List members,

I just remembered that I have a redundant Special Forces GRC-109 I'd like to sell.

The set is complete with the 3 units: receiver, transmitter and the small (AC only) power supply. The set works very well, I use it occasionally to check in to the East Coast Military Radio Collectors' CW Net Sunday

evenings. Manual copy. I'd like \$200 for it, not including shipping.

Thanks,

73, Meir WF2U

-----  
Message-ID: <379FCC54.3A2EE46C@ucalgary.ca>  
Date: Wed, 28 Jul 1999 21:37:00 -0600  
From: Deane D McIntyre <dmcintyr@ucalgary.ca>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: End of CW for Canadian Coast Guard  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Tonight CBC radio news reported the end of CW for the Canadian Coast Guard. For details see the story on the CBC site:

<http://www.cbcnews.cbc.ca/cgi-bin/templates/view.cgi?/news/1999/07/28/morse990728>

The Realaudio report is also there, with CW as transmitted as part of the last message on 500 kc (not sure of the station, either VAR or VCO are most likely). OT John Wier was at the key.

At the end it is stated:

It isn't likely that Morse Code will completely disappear from the airwaves. Old-timers like John Wier are vowing to keep it alive on amateur radio bands.

But we all knew that.

73, Deane D McIntyre VE6BP0  
dmcintyr@ucalgary.ca

-----  
Date: Thu, 29 Jul 1999 10:00:36 -0600 (MDT)  
From: Richard Loken <richardlo@devax.admin.athabascau.ca>  
Subject: Re: End of CW for Canadian Coast Guard  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Message-id:  
    <Pine.PMDF.3.95.990729095904.541163699A-1000000@devax.admin.athabascau.ca>  
MIME-version: 1.0

Content-type: TEXT/PLAIN; charset=US-ASCII

...and the CBC announcer pronounced it "Morris Code" and he talked so much that I couldn't copy the message in the background.

But I could scarf the real audio (if my computer had speakers) and listen to it a few times.

---

Richard Loken VE6BSV, Systems Programmer - VMS  
Athabasca University  
Athabasca, Alberta Canada  
\*\* richardlo@admin.athabascau.ca \*\*

-----  
Message-Id: <m119ssd-0006dfc@mail.islandnet.com>  
Date: Thu, 29 Jul 1999 09:07:39 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: dma@islandnet.com  
Subject: RACAL 117 Info sought.  
Cc: <salmaniw@home.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi gang ...

A friend recently acquired a nice Racal 117 and I am attempting to bring it back to the land of the living. It is in very nice cosmetic shape, but has had some diddling of the kind the manual says not to do, and more than its share of less than expert repairs done over the years. But we're making progress, and remain hopeful.

This is a very different circuit than most radios I've worked on, and interesting to tackle. It reminds me of synthesised PLL units found in top end radios one or two generations later. It is a triple conversion superhet that uses a 1MHz crystal stabilized harmonic generator to create what amounts to a "comb" of signals 1 MHz apart feeding the first mixer through a tuned circuit connected to the MHz control. The particular MHz segment needed is selected by the front panel MHz control - as you tune this control, the rcvr noise peaks and falls as you tune through the 1 MHz harmonics. Once on the selected MHz point, the kHz control provides about 4 feet of bandspread using a great back-lit film strip readout. It controls a second vfo driving the second mixer that allows tuning across the MHz segment. This is then converted again to a third i.f. at 100 kHz which then feeds the usual AGC/detector/audio stuff. Or at least this is my understanding of the radio as of the moment - subject to constant revision!

I know this radio was made in England, and that an American version was produced in the States with, I think, a 6117 model number. A lot of 117s

were used in the Canadian military, and I think the Australian and New Zealand services as well. I've been told that the 117 was also built in the US (contrary to the info in Moore) but to US standards.

At the moment I'm looking for two things:

First, I'd like to know as much as possible about how, when and where this radio was actually used. I'd ultimately like to do an article on it and need more of the history.

Second, I'd <<really>> like to get a good quality schematic. The one I have is an umpteenth generation copy and almost unusable in places. Not good when there are features that I don't understand - like the "Wadley loop" used to cancel drift.

Any info greatly appreciated!

Jan Skirrow  
Duncan, British Columbia, Canada

-----  
Message-Id: <4.1.19990729091432.00accc10@mail.earthlink.net>  
Date: Thu, 29 Jul 1999 09:19:02 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Dave Medley <davemed@earthlink.net>  
Subject: AR88LF-The ultimate boatanchor  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

After years of searching I have finally acquired an RCA AR88LF. This radio is so heavy I had to wait until the UPS man came back to help me get it up on the bench. Makes the R-390 look like a lightweight!!

The radio is so clean it looks like it just came out of the factory and much to my delight when I fired it up it works just great and is remarkably sensitive and stable considering its age. With its conventional tuning system it is going to be a much nicer radio to use for general shortwave listening and DXing.

I was very familiar with this radio in the period immediately following WW2 when I used them commercially back in Australia. I have seen very little mention of the AR88 on this list. It is a very underrated radio and apparently not too common. Most appear to have been exported to foreign government/military organizations.

I am posting this in the hope that some discussion might be generated on the history and application of this radio. I

.  
.

end

Regards  
David Medley  
1020 West Oleta Drive  
Tucson AZ 85704

R-390A with Kleronomos Audio and solid state current reg.  
R-391 with fully operational autotune.  
AR-88 LF in beautiful condition.

For parts and information re R-390 radios please check my Web Page at:  
<<http://www.home.earthlink.net/~davemed>>

end

Regards  
David Medley  
1020 West Oleta Drive  
Tucson AZ 85704

R-390A with Kleronomos Audio and solid state current reg.  
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<<http://www.home.earthlink.net/~davemed>>

-----  
Message-ID: <37A08592.23C7C3C3@ibm.net>  
Date: Thu, 29 Jul 1999 12:47:14 -0400  
From: Ray Vasek <w2ec@ibm.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: TA-1/PT Field Phones  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have a pair of TA-1/PT field phones if anyone needs them to add to their military collection.

\$60 for the pair, plus shipping from NY 13732

You can see them and get a little more detail at:  
"[http://www.geocities.com/~ac\\_cars/radios.html](http://www.geocities.com/~ac_cars/radios.html)"

73, Ray W2EC

-----  
Message-ID: <37A02578.727444C9@concentric.net>  
Date: Thu, 29 Jul 1999 09:57:12 +0000  
From: "Lloyd A. Scott, Jr." <wpul1130@concentric.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Batteries  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Greetings All: Is there a supply for some of the old battery operated equipment, such as the BC-1000, BC-611, PRC6, PRC10 and ect. Or is it better to build the batteries. Many thanks in advance.  
73's  
Lloyd

--  
~WPC,

-----  
Message-ID: <37A08AF7.14F26E1F@bw.webex.net>  
Date: Thu, 29 Jul 1999 10:10:15 -0700  
From: Al Klase <skywaves@bw.webex.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: AR88LF-The ultimate boatanchor  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dave Medley wrote:

>  
> I have seen very little  
> mention of the AR88 on this list. It is a very underrated radio and  
> apparently not too common. Most appear to have been exported to foreign  
> government/military organizations.

Dave and The Group,

The AR-88 is one of my favorite radios. As you point out, a lot of them ended up outside the US. I don't ever remember seeing them in surplus adds. I suspect that most of the one's that were in the US



remained in commercial service until after SSB was well established in the ham world. I also suspect hams may have blown them off for lack of calibrated bandspread.

--

Al Klase - N3FRQ  
skywaves@bw.webex.net  
Flemington, NJ 08822  
Web Page: <http://www.webex.net/~skywaves/home.htm>

-----  
Message-ID: <37A0993D.494C6D7F@ix.netcom.com>  
Date: Thu, 29 Jul 1999 13:11:09 -0500  
From: David Stinson <arc5@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Military Batteries  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

"Lloyd A. Scott, Jr." wrote:

>  
> Greetings All: Is there a supply for some of the old battery operated  
> equipment,  
> such as the BC-1000, BC-611, PRC6, PRC10 and ect....

The Military Radio Collector's Group is making a group purchase from an Italian company of inverter power supplies for these radios. Extensive tests show them to be very good indeed, giving exceptional operation time on just five "D" cells. Cost is about \$38 each in the quantity we are purchasing.

The order has already gone in, but I will supply a report on them plus the company contact information when they arrive and I've had a chance to test them.

73 DE Dave AB5S

--- --  
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and in body: subscribe BOATANCHORS yourfirstname yourlastname  
To unsubscribe: [listserv@listserv.tempe.gov](mailto:listserv@listserv.tempe.gov)  
and in body: signoff BOATANCHORS  
Archives for BOATANCHORS: <http://www.tempe.gov/archives>

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-----  
Date: Thu, 29 Jul 1999 14:24:43 -0400 (EDT)  
Message-Id: <1.5.4.16.19990729142047.1e67b7e2@pop1.sympatico.ca>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Andre Guibert <aguibert@sympatico.ca>  
Subject: Re: AR88LF-The ultimate boatanchor

Bonjour to All

Down memory lane: Listed in "North American Electronics  
Bulletin No. 10 (Circa 1960)  
Montreal(Quebec)

AR88-CR88-CR91= 175\$(Top Condition, with diagram  
and tec. notes included) Each

AN/ART-13= 54.50\$ complete as above.

Collins 18S-4B= 75\$ (Like New)

WS19Mk3= 45\$ (Complete Station)

Picked up a CR88LF and a CR91 in those glorious days.

Andre

9

Andre Guibert  
aguibert@sympatico.ca

-----  
Date: Thu, 29 Jul 1999 16:09:00 -0400 (EDT)  
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Batteries  
Message-Id: <Pine.A32.4.03.9907291559510.38615-100000@ppdu.nrl.navy.mil>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=X-UNKNOWN  
Content-Transfer-Encoding: QUOTED-PRINTABLE

Lloyd,

I have used both reconstructed batteries and DC-to-DC converters for for my PRC-6's. I was given two batteries for the PRC-6 that I took apart. The 135 VDC was supplied by a number of 9-Volt sections. I obtained these by removing the metal covers from 9-Volt

batteries with a pair of pliers and soldering them together in series.  
This work fine but battery replacement is a chore.=20

I recently purchased DC-DC converters that fit inside the  
PRC-6 when I was in Germany last month at the Freidrichshafen HAMRADIO  
Conference. These were about \$35 each and they hold 7 or  
so D-cells. These converters were military type made in France.  
Unfortunately, I don't have any spares.  
Cheers, Paul Bernhardt

Work:P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

On Thu, 29 Jul 1999, Lloyd A. Scott, Jr. wrote:

> Greetings All: Is there a supply for some of the old battery operated  
> equipment,  
> such as the BC-1000, BC-611, PRC6, PRC10 and ect. Or is it better to  
> build  
> the batteries. Many thanks in advance.  
> 73's  
> Lloyd  
>=20  
> --  
> =FFWPC,  
>=20  
>=20  
>=20

-----  
Date: Thu, 29 Jul 1999 16:13:36 -0400 (EDT)  
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: AR88LF-The ultimate boatanchor  
Message-Id: <Pine.A32.4.03.9907291609580.38615-100000@ppdu.nrl.navy.mil>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dave, Al, et al.,

I have brought back several AR88D's and AR88LF's back from England on  
several trips. These can be obtained for about \$120-150 at hamradio  
ralleys. Recently, in the US, I found an AR88F for sale that was used in  
a diversity system. I also have a friend, John Reynolds, in the UK that  
replicates AR88 meters. Currently, he is way behind in orders for the

meters.

Cheers, Paul Bernhardt

Work: P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

On Thu, 29 Jul 1999, Al Klase wrote:

> Dave Medley wrote:  
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>  
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>  
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> them ended up outside the US. I don't ever remember seeing them in  
> surplus adds. I suspect that most of the one's that were in the US  
> remained in commercial service until after SSB was well established in  
> the ham world. I also suspect hams may have blown them off for lack of  
> calibrated bandspread.  
>  
>  
> --  
> Al Klase - N3FRQ  
> skywaves@bw.webex.net  
> Flemington, NJ 08822  
> Web Page: <http://www.webex.net/~skywaves/home.htm>  
>  
>

-----  
From: zeitler@ibm.net  
Message-ID: <009601beda04\$8cdbc20\$b5dc6520@km3g>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: paralleling several dc supplies to increase I capability  
Date: Thu, 29 Jul 1999 13:54:26 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

First of all let me start off by saying that I have added both boatanchors groups to this e-mail because the wealth of knowledge on these two groups is unparalleled. Please forgive me for having the nerve (or foolheadedness) to ask a question regarding solid state stuff on the BA list.

Here is the scenario: Eventually I would like to add a solid state HF amp to the ham shack. I have numerous Ten Tec and Astron supplies. When paralalled they should provide well over 160 amps btwn the 8 supplies. I have two sides of the 240 in the shack so 4 supplies would be on one and the other four would be on the other so not all of them are on just one 120 volt line.

What is the best method of paralleling and combining the outputs of these supplies so they are all getting the same current draw? I assume I need to ensure that the voltage accross the string of them is equalized.

Ideas?

Lane  
Ku7i

-----  
Message-ID: <37A0C416.8CDAF626@bw.webex.net>  
Date: Thu, 29 Jul 1999 14:13:58 -0700  
From: Al Klase <skywaves@bw.webex.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS: Navy MAR AC Power Supply  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

"Type CQC-20409 Power Supply Unit" a unit of MAR. Has 120 VAC input. Appears to be a low-voltage battery-eliminator supply. 1946 date. Condition 7+ (Minor paint chips.) I don't have a connector or schematic, so it's untested. MAR was apparently a UHF backpack TX-RX. Price: \$20. I pack, you ship. 20 lbs. from 08822.

--  
Al Klase - N3FRQ  
skywaves@bw.webex.net  
Flemington, NJ 08822  
Web Page: <http://www.webex.net/~skywaves/home.htm>

-----  
Date: Thu, 29 Jul 1999 18:06:54 -0400  
Message-Id: <199907292206.SAA21128@brill.shiva.com>  
From: John Shriver <jas@shiva.com>  
To: Old Tube Radios <boatanchors@theporch.com>

CC: boatanchors@theporch.com

Subject: Re: paralleling several dc supplies to increase I capability

Only regulated power supplies designed to be paralleled may be paralleled. If you parallel two regulated power supplies not designed to be paralleled, they will go crazy, since their set points won't be the same. They must actively cooperate in setting the same voltage, or sparks will fly. (One will look like a load to the other.)

Things like the laboratory grade Hewlett-Packard/Harrison and Lambda power supplies often have facilities for paralleling them. But, unless the manual talks about paralleling them, and they are all the same brand, I wouldn't even consider trying it.

There are techniques for using diodes to "or" a bunch of supplies into one load. But this doesn't allow the supplies to load share, they ignore each other. Whichever one has the highest output voltage takes all the load. This is just for host-standby and hot-swap configurations.

-----  
Message-ID: <01BED9F2.266AD080.w1ksz@tiac.net>

From: "Richard W. Solomon" <w1ksz@tiac.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Help ID RCVR

Date: Thu, 29 Jul 1999 18:38:58 -0400

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

I picked up a receiver or whats left of it from that "other place". It looks like someone

took the front end and power supply and mounted them on a panel. I think the IF and audio section is there too.

The power supply is labeled PP-1A/ASR.

The RCVR tunes 50 - 200 MHZ continuously, drum type readout.

Tube lineup is V101 - 6612, V102 - 6611, V103 - 6611, V104 - 6051

Has 9 cans that plug into 9 pin sockets, one marked RR 473-216

Anyone have any idea what it is ?? I am going to give it the "Smoke" test this weekend.

Tnx for any help. 73 de Dick, W1KSZ

-----  
Message-Id: <m11A0En-0006e5C@mail.islandnet.com>

Date: Thu, 29 Jul 1999 17:08:41 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: dma@islandnet.com

Subject: Re: paralleling several dc supplies to increase I capability  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 01:54 PM 7/29/99 -0700, zeitler@ibm.net wrote:

>Here is the scenario: Eventually I would like to add a solid state HF amp to  
>the ham shack. I have numerous Ten Tec and Astron supplies. When paralalled  
>they should provide well over 160 amps btwn the 8 supplies. I have two sides  
>of the 240 in the shack so 4 supplies would be on one and the other four  
>would be on the other so not all of them are on just one 120 volt line.

I've had some success doing this, but the current and number of supplies  
you're looking at would make me want to turn the sucker on with a very long  
stick - the first time at least.

I have paralleled 6 Lambda 24vdc, 12amp supplies and experienced no  
problems. They load share quite nicely and seem able to operate for some  
time without difficulty.

I use them to drive an ART-13 dynamotor, and there are special problems  
(only partly solved) due to the startup current requirement. I'm working on  
a new arrangement, but to date have used a <<large>> capacitor bank to  
provide the initial push. Fortunately the Lambdas don't latch out when  
overloaded, but come back on line as the over-demand disappears as the dyno  
rotor starts to spin.

Anyway, I use a diode between each power supply and a common point which  
becomes my +. There's other stuff connected here as well to deal with the  
capacitor bank - but yu won't need any of that. I don't use the remote  
sensing features of the Lambdas. They seem fine paralalled this way. The  
residual resistance of the diode at the operating current provides for load  
sharing. You must have something resistive in the output circuit for load  
sharing to happen, and the diode seems adequate. For my application, it  
also protects the supplies should the power go off, and the dynamotor try  
to dump its energy back into my power supplies.

I can't say if this would work with any other make of power supplies, and I  
would not mix types of supplies under any circumstance. I'd start by  
paralleling two of them into a dummy load - limit your losses and the  
possibility of small - yet spectacular - explosions!

Good luck

Jan Skirrow, VE7DJX

Duncan, BC, Canada

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"So many radios, so little time"

<http://www.islandnet.com/~dma/Boatanchors/>

Information, Parts, Pictures, Articles: The R-390A  
and other classic gear.

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-----  
Message-ID: <37A0A4EB.F1A4827E@globetrotter.net>

Date: Thu, 29 Jul 1999 20:01:00 +0100

From: luc dugas <collins2@globetrotter.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

CC: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: AR88LF-The ultimate boatanchor

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

as far as i know the ar-88s were al manufactured in montreal. i gather all  
ar-88 i can. at the moment i have about 20 ar-88           3 cr-88       2 cr-91a a  
ar-88"F'   anf even a cr-188. i have a couple ready for sale.

luc ve2lgj 73s

-----  
Message-ID: <A96271B9ED2BD211BAF80008C7F41F5D79E64D@lib.drury.edu>

From: "Mike O'Brien" <mobrien@lib.drury.edu>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: re: AR-88: the ultimate boatanchor

Date: Thu, 29 Jul 1999 20:38:09 -0500

MIME-Version: 1.0

Content-Type: text/plain

All these glowing remarks about the AR-88 from obviously knowledgeable  
folk prompt me to ask:

I've had a complete but in-need-of-restoration AR-88 on the shelf for  
several years. It has a feature I've not seen in books nor on the other few  
examples I've seen at hamfests: a knob, apparently factory in origin, just  
below and to the right of the Selectivity control, marked "Diversity IF  
Gain."

Although I haven't explored the circuitry, obviously it's a set made to  
be used in concert with others in a diversity setup. But it doesn't have the  
same cosmetic attributes described in Ray Moore's books for the CR-88A  
diversity model -- it has the traditional black wrinkle panel paint, for  
instance, not the smooth gray specified by Moore.



Any thoughts?

73,

Mike, KOMYW

-----  
From: "WF2U" <mbendror@villagenet.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: AR-88: the ultimate boatanchor  
Date: Thu, 29 Jul 1999 22:20:09 -0400  
Message-ID: <003a01beda32\$0baade80\$0291c0c0@meir-s\_nt4.villagenet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello all,

It's also nice to see your posting, Luc - long time no hear... I hope all is well with you.

I've encountered both paint schemes on the AR88(\*)'s - either black wrinkle or flat black panels. Some AR88's were made for diversity too. The CR88 is a later version - post WW2 and it was gray. It also had a crystal phasing control, but the basic tube lineup and circuitry was very similar to the AR88.

I used them professionally even in the 60's. They're indeed the best single-conversion receivers. By the way I wonder whether some of the older Eddystone single conversion models were at least as good as the AR88... I just got an Eddy 830/4 (it is a late 60's model) and it impressed the heck out of me performance (and of course, style-) wise.

I also love my Canadian Marconi CSR5 for its audio but it is not as sensitive as a well-aligned AR88...

Any inputs?

73 de Meir, WF2U

-----Original Message-----

From: owner-boatanchors@theporch.com [mailto:owner-boatanchors@theporch.com]  
On Behalf Of Mike O'Brien  
Sent: Thursday, July 29, 1999 9:38 PM  
To: Old Tube Radios  
Subject: re: AR-88: the ultimate boatanchor

All these glowing remarks about the AR-88 from obviously knowledgeable

folk prompt me to ask:

I've had a complete but in-need-of-restoration AR-88 on the shelf for several years. It has a feature I've not seen in books nor on the other few examples I've seen at hamfests: a knob, apparently factory in origin, just below and to the right of the Selectivity control, marked "Diversity IF Gain."

Although I haven't explored the circuitry, obviously it's a set made to be used in concert with others in a diversity setup. But it doesn't have the same cosmetic attributes described in Ray Moore's books for the CR-88A diversity model -- it has the traditional black wrinkle panel paint, for instance, not the smooth gray specified by Moore.

Any thoughts?

73,

Mike, KOMYW

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End of BOATANCHORS Digest 2621

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